

BOOK NOTICE

DONALD PIGOTT. 2012. **Lime-Trees and Basswoods. A Biological Monograph of the Genus *Tilia***. (ISBN-13: 978-0-521-84054-5, hbk.). Cambridge University Press, The Edinburgh Building, Cambridge CB2 8RU, United Kingdom. (**Orders:** www.cambridge.org). \$130.00, 405 pp., 314 b/w illustrations, 8½" × 11".

From the Publisher: "Lime trees (*Tilia* spp.) are widely distributed and locally important members of northern temperate broad-leaved forests. In marked contrast to the largely uniform morphology of the genus its taxonomic treatment has become increasingly confused and controversial, with over one hundred species and numerous subspecies described. Using extensive data from field studies of natural populations around the world, this book clarifies the situation, proposing a revised taxonomy of 23 species and 14 subspecies. Detailed descriptions are provided for all recognized taxa and are accompanied by illustrations. Data from herbaria and cultivated trees are used to extend the analyses where appropriate and type specimens are included to stabilize nomenclature. Lime tree ecology is also considered, with an exploration of experimental and analytical data on regeneration, growth and reproduction in relation to climate and soils. Additional material includes a glossary of botanical terms and appendices of herbarium codes and relevant physical concepts."

Each taxonomic entry is treated systematically with a variety of descriptive information: Synonymy (if any), Nomenclature, Type Information, Description and Figure, Chromosome Number, Variation and Hybrids, Hybridization, Geographical Distribution, Ecology and Plant Communities. Keys are also provided.

Table of Contents:

Preface and acknowledgments

1. Introduction: the Tiliaceae and genus *Tilia*
 2. General morphology of *Tilia*
 3. Cellular anatomy
 4. A brief history of taxonomy of the genus
 5. Taxonomic revision: concepts and methods of description
 6. Chromosome numbers, molecular biology and hybridization
 7. Geographic and ecological data
 8. European and west Asian taxa
 9. East Asian taxa 1: sections Endochrysea, Henryana and Anastraea
 10. East Asian taxa 2: section Astrophilyra
 11. American taxa
 12. Geological history of the genus
 13. Physiological ecology of *Tilia*
 14. Floral and reproductive ecology of *Tilia*
 15. Association of *Tilia* with human activity
 16. Propagation and cultivation
- Appendix A. Herbarium codes
 Appendix B. A brief explanation of physical and chemical terms and concepts used in the ecological sections
 References
 General Index.